TABLE 1. Nucleus RTX Configuration Items

Name	Type	Description
SKD_System_Stack_Ptr	**unsigned***	This must be initialize to point to the start of the system stack space used by the executive.
IN_System_Stack_Size	**unsigned**	This must be initialize to the total number of 32-bit words to use for the system stack.
IN_Last_Memory_Address	**unsigned**	This variable must be initialized to the last memory location to be used by the executive. The executive uses the area between the address of *IN_Last_Address_Used* and the location referenced by this variable for stacks, task control structures, etc.
IN_Last_Address_Used	**unsigned**	This variable must be initialized to reference the first location used by Nucleus RTX for stacks, task control structures, etc.
IN_Fixed_Partitions	**struct IN_FIXED_PARTITION_STRUCT[]**	This is an array of partition definition structures. The first field of entry just after the last used entry must contain the value "END_OF_LIST." This array must contain an initialized entry for each **MemoryPool** instance. The index of the entry serves as the RTX identifier for the pool.
IN_System_Queues	**struct IN_QUEUE_DEFINITION_STRUCT[]**	This is an array of queue definition structures. The first field of the entry just after the last defined queue must contain the value "END_OF_LIST." This array must contain an initialized entry for each **Queue** instance in the system. The index of the entry serves as the RTX identifier for the queue.
IN_System_Event_Groups	**unsigned**	This is the count of event groups used by the instrument. For ACIS, this must be initialized to the total number of tasks in the system.
IN_System_Resources	**unsigned**	This is the count of semaphores used by the instrument. For ACIS, this must be initialized to the total number of **Semaphore** instances used by the system
IN_System_Tasks	**struct IN_TASK_DEFINITION_STRUCT[]**	This is an array of task definition structures. The first field of entry just after the last defined task must contain the value "END_OF_LIST." There must be one entry for each defined **Task** instance within the instrument. The index of an entry serves as the RTX identifier for the task.